

CITY CLASS F

Pure design, technology and
automotive innovation
for your comfort

25 kW

30 kW

35 kW

25 F • 30 F • 35 F

Features

- Ultra compact sizes (W=400 H=700 D=300)
- Easy to be installed, indoor or even outdoor in a partially protected compartment
- Designed to allow an easy maintenance
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be managed by remote control (optional)
- Brass hydraulic group
- DHW output up to 16.2 l/min (mod. 30 F)
- High efficiency and low consumptions
- Microprocessor electronic system
- LCD display with self-diagnosis
- User friendly controls
- Chimney sweep mode
- Stainless steel, plate-to-plate DHW exchanger
- Low energy multi-speed pump
- Automatic hydraulic by-pass, outside the exchanger
- Timed post-circulation
- Adjustable CH heat power output
- Anti-freeze function on both DHW and CH sides
- Function to prevent the block of the pump and of the three-way valve
- Signalization of the system low pressure
- Filter on boiler water inlet



EXPANSION VESSEL
CAP. 8 LT

ELECTRIC
THREE-WAY VALVE

COPPER
MAIN EXCHANGER

STAINLESS STEEL
PLATE TO PLATE
DHW EXCHANGER

PID
TYPE MODULATION
LOGIC

BRASS
HYDRAULIC GROUP

HIGH QUALITY
CIRCULATING PUMP

Temperature,
diagnosis,
technical adjustments
on LCD display

Summer-Winter selection,
unlocking position,
heating adjustment

DHW adjustment,
chimneysweeper,
access to technical
adjustments

TECHNICAL DATA

traditional combustion models

	Model	City Class		City Class	
		20 F	25 F	30 F	35 F
Gas type		G31	G31	G31	G31
Class		II ₂ H3+			
Type		B 22 - C12 - C32 - C42 - C52 - C62 - C82 - C92			
Working temperature range (min÷max)	°C	0 ÷ +60	0 ÷ +60	0 ÷ +60	0 ÷ +60
Max heat input	kW	21.0	25.7	30.0	34.5
Min heat input	kW	9.5	10	12.0	13.6
Max heat output	kW	19.5	24	28.2	32.4
Min heat output	kW	8.1	8.5	10.2	11.7
NO_x Class		2	2	2	2
CO at 0% O₂ (Qn)	ppm	69.7	91.1	84.8	85.2
CO₂ at nominal input	%	5.5	7.2	7.5	6.9
Flue temperature (Qn)	°C	118	119	122	118
Flue mass flow rate (Qn)	kg/h	53.7	51.9	58.02	71.45
EFFICIENCY					
Nominal efficiency	%	92.7	93.3	94.0	94.0
Efficiency at 30% load	%	90.5	91.0	91.5	92.0
HEATING					
Temperature selection range (min÷max)	°C	35÷80	35÷80	35÷80	35÷80
Expansion vessel	l	8	8	8	10
Expansion vessel pre-loading pressure	bar	1	1	1	1
Loss of water pressure switch off / on pressure	bar	0.4 / 0.9 (±0.2) <small>To allow the connect system filling, the pressure of the domestic water should be higher than the ON value of the pressure switch</small>			
Max working pressure	bar	3	3	3	3
Max system temperature	°C	85	85	85	85
HOT WATER					
Flow rate at 25°C temp. rise	l/min	11.2	13.7	16.0	18.6
Flow rate at 30°C temp. rise	l/min	9.3	11.5	13.5	15.5
Min water flow (for the DHW function activation)	l/min	2.8	2.8	2.8	2.8
Min supply pressure (for the DHW function activation)	bar	0.2	0.2	0.2	0.2
Max supply pressure	bar	6	6	6	6
Temperature selection range (min÷max)	°C	35÷55	35÷55	35÷55	35÷55
ELECTRICAL DATA					
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)			
Power consumption	W	103	103	132	145
Level of protection		IP X5D	IP X5D	IP X5D	IP X5D
DIMENSIONS					
Width - Height - Depth	mm	400x700x300			
Weight	kg	27.8	30.0	30.3	34.8
CONNECTIONS					
Hydraulic and gas connections		see technical sheet			
Flue: types and diameters		see technical sheet			
Split Ø 80 mm max length (inlet / outlet)	m	16	16	14	16
Coaxial Ø 60/100 mm max length (inlet / outlet)	m	4	4	3	3
GAS SUPPLY PRESSURE					
Nominal pressure	mbar	20	20	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25	17 ÷ 25	17 ÷ 25
Injectors number		9	11	13	15
Injectors diameter	mm/100	130	130	130	130
GAS CONSUMPTION					
Qmax	m ³ /h	2.22	2.72	3.17	3.65
Qmin	m ³ /h	1.00	1.06	1.27	1.44

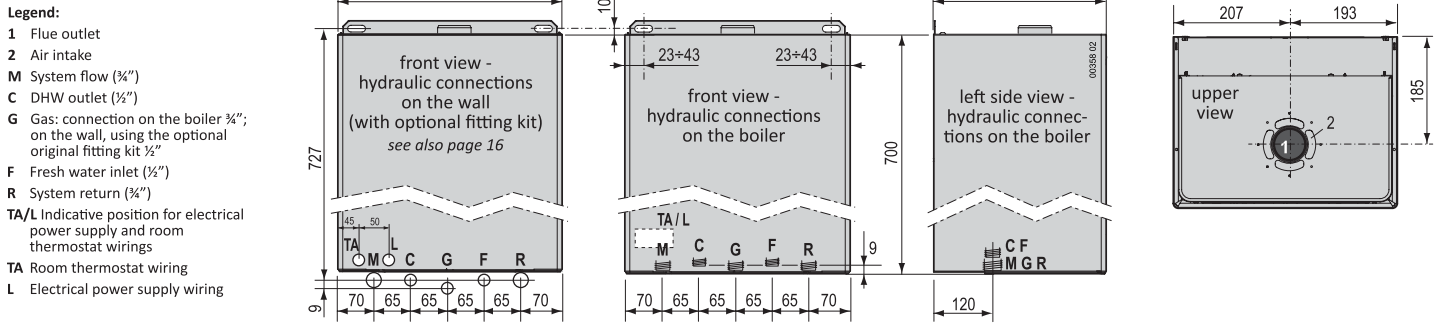
Green Heating Technology

ITALTHERM



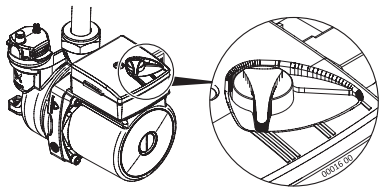
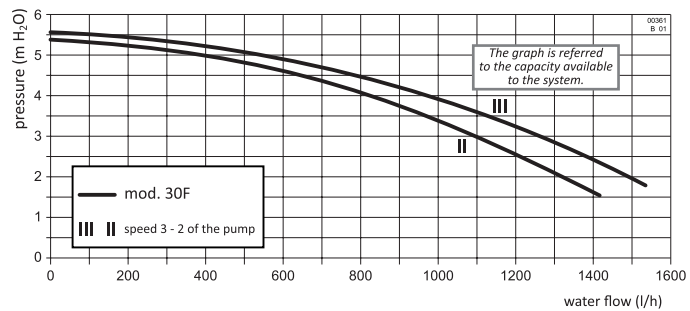
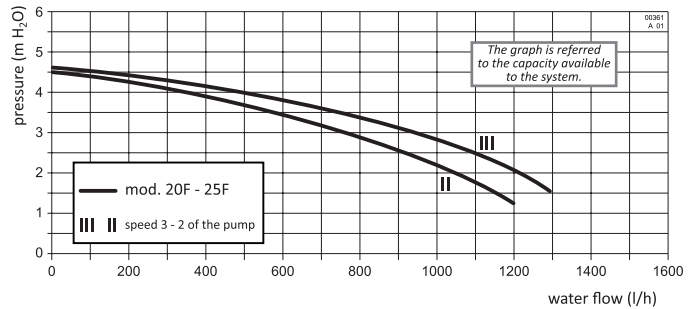

Dimensions & Connections

CH and instant DHW combination models



Pump Features

- Multi-speed, low-energy
- Automatic by-pass, outside the exchanger
- Pump with built-in air vent to have high efficiency and improve CH system work



Solar Kit with fittings

Thanks to this kit, it is possible to combine the boiler **City Class F** to a **solar system** by an **easy installation** and **without making any electrical connection**. This kit is equipped with a thermostatic diverting valve, a thermostatic mixing valve (DHW adjustment knob included in), and the necessary hydraulic fittings to directly install the kit at the lower side of the boiler. It includes also the gas cock and the fittings for the heating system, so the standard Hydraulic fitting kit is not necessary.



(fittings not shown)



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